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Annual Report 2012

NaturalGas
EPA POLLUTION PREVENTER

Production Sector

Company Information

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Annual Report Summary

- ☐ BMP 1: Identify and replace high-bleed pneumatic devices
- ☐ BMP 2: Install flash tank separators on glycol dehydrators
- ☒ Partner Reported Opportunities *(please specify):*

Period covered by report: From: 01/01/2012 To: 12/31/2012

Partner Signature Required:

I hereby certify the accuracy of the data contained in this report. Dwight D Serrett 8/6/2013

Date

- Because the implementation of some technologies reduces emissions for multiple years, Natural Gas STAR allows certain activities to count towards a company's emission reductions beyond the initial year of implementation. Natural Gas STAR designates the maximum length of time that these reductions may accrue as "sunset dates." The Appendix lists these sunset dates. Companies can report the corresponding methane emission reductions each year up to the allowable sunset date. Or, companies may wish to report reductions only once for the implementation year, and have EPA automatically apply the sunset date and count those emissions for the allowable number of years.
- In addition to reporting methane emissions reductions, you are welcome to include other information about your company's participation in Natural Gas STAR in the "Additional Program Accomplishments" section of this form. The Natural Gas STAR Program will use any information entered in this section to recognize the efforts and accomplishments of outstanding partners.

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Partner Reported Opportunities (PROs)

For more details on PROs, visit epa.gov/gasstar/tools/recommended.html

Summary of Emission Reduction Activities

Please include aggregate information in this section for all locations. If multiple facilities/locations are represented, additional detail by specific facility/location can be provided in the table below.

A. Facility/location identifier information:
(If only one location note here, otherwise use table below.) _____

B. Project description: Please provide a separate PRO reporting form for each activity reported. If reporting a DI&M activity, please use a separate page for each location/facility surveyed.

Please specify the technology or practice that was implemented (choose from the list in the appendix or describe your own):

Catalytic converter installation

Please describe how your company implemented this activity: The company elected to install oxidation catalysts on four new lean burn emission engines to reduce greenhouse gas emissions. The units were installed in the fourth quarter of 2012 and so the reductions for 2012 are lower than will be achieved for following years.

C. Level of Implementation *(check one)*:

☒ Number of units installed: 16 units
☐ Frequency of practice: _____ times/year

D. Are emissions reductions a one-year reduction or a multi-year reduction? ☐ **One-year** ☒ **Multi-year**

If Multi-year:

☐ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration*.

☒ Partner will report this activity annually up to allowed sunset date.

E. Methane emissions reduction:
6539.02 Mcf

F. Cost summary: Estimated cost of implementing this practice/activity *(including equipment and labor)*: $ 250,000

Please identify the basis for the emissions reduction estimate, using the space provided to show any calculations

☐ Actual field measurement

☒ Calculation using manufacturer specifications/other source

☐ Other (*please specify):*

G. Total value of gas saved: $ 22,887

Total value of gas saved = Methane emissions reduction (in Mcf) x Gas value (in $/Mcf) [If not known, use default of $3.50/Mcf]

H. To what extent do you expect to implement this practice next year? The reductions will continue and will be higher in the following years as the reductions will be over the whole year.

Optional: Additional details by location

Facility/Location identifier information	Frequency of Practice/Activity/# of installations	Total Cost of Replacements (incl. equipment and labor) ($)	Estimated Reductions (Mcf/yr)	Value of Gas Saved ($)
Ramsey Plant	4 oxidation catalysts		405.37	1,418.80
State Line Station	8 oxidation catalysts & 1 NSCR		5,469.49	19,143.22
Rustler Hills	1 oxidation catalyst		443.37	1,551.81
Capitan Station	2 oxidation catalyst		220.78	772.74

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Summary of Emission Reduction Activities

Please include aggregate information in this section for all locations. If multiple facilities/locations are represented, additional detail by specific facility/location can be provided in the table below.

A. Facility/location identifier information:
(If only one location note here, otherwise use table below.) Ramsey Plant

B. Project description: Please provide a separate PRO reporting form for each activity reported. If reporting a DI&M activity, please use a separate page for each location/facility surveyed.

Please specify the technology or practice that was implemented (choose from the list in the appendix or describe your own):	Please describe how your company implemented this activity:
Installed mole sieve dehydrator instead of a TEG dehydrator	The company elected to install mole sieve dehydrators instead of a TEG dehydrator.

C. Level of Implementation *(check one)*:

☐ Number of units installed: 1 units
☐ Frequency of practice: _____ times/year

D. Are emissions reductions a one-year reduction or a multi-year reduction? ☐ **One-year** ☒ **Multi-year**

If Multi-year:

☐ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration*.

☒ Partner will report this activity annually up to allowed sunset date.

E. Methane emissions reduction: _____ Mcf

F. Cost summary: Estimated cost of implementing this practice/activity *(including equipment and labor)*: $ _____

Please identify the basis for the emissions reduction estimate, using the space provided to show any calculations

☐ Actual field measurement

☐ Calculation using manufacturer specifications/other source

☐ Other (*please specify*):

G. Total value of gas saved: $_____

Total value of gas saved = Methane emissions reduction (in Mcf) x Gas value (in $/Mcf) [If not known, use default of $3.50/Mcf]

H. To what extent do you expect to implement this practice next year?

Optional: Additional details by location

Facility/Location identifier Information	Frequency of Practice/Activity/# of Installations	Total Cost of Replacements (incl. equipment and labor) ($)	Estimated Reductions (Mcf/yr)	Value of Gas Saved ($)

PRO Comments: *Please use the back of the page for additional space if needed.*

**Because the implementation of some technologies reduces emissions for multiple years, Natural Gas STAR allows certain activities to count towards a company's emission reductions beyond the initial year of implementation. Natural Gas STAR designates the maximum length of time that these reductions may accrue as "sunset dates." The Appendix lists these sunset dates. Companies can report the corresponding methane emission reductions each year up to the allowable sunset date. Or, companies may wish to report reductions only once for the implementation year, and have EPA automatically apply the sunset date and count those emissions for the allowable number of years.*

ENERGY STAR GREENHOUSE GAS CALCULATIONS

NUEVO MIDSTREAM, LLC

2012 Annual Report Back-up Calculations

Nuevo installed oxidation catalysts on its Cat 3516 TALE engines
The catalysts reduced the THC emissions by at least 50%

		Ramsey	State Line	Rustler	Capitan
THC emissions, g/hp	2.97	2.97	2.97	2.97	2.97
NMHC, g.hp	0.45	0.45	0.45	0.45	0.45
Methane	2.52	2.52	2.52	2.52	2.52
OC reduction, %	50	50	50	50	50
Reduced methane, g/hp	1.26	1.26	1.26	1.26	1.26
Engine rating, hp	1150	1150	1150	1150	1150
Methane reduction, lbs/hr	3.19	3.19	3.19	3.19	3.19
Hours of operation	8760	1344	8760	5880	1464
Methane reduction, lbs/yr	27,959	4,290	27,959	18,767	4,673
Moles/yr	1,742.84	267.40	1,742.84	1,169.85	291.27
Volume, MCF/yr	**660.54**	**101.34**	**660.54**	**443.37**	**110.39**
		4 - 3516s **405.37**	8 - 3516s **5,284.30**	1 G3516 **443.37**	2 - 3516s **220.78**

Nuevo installed a NSCR on its Cat G398

		State Line
THC emissions, g/hp	1.6	1.6
NMHC, g.hp	0.3	0.3
Methane	1.3	1.3
OC reduction, %	50	50
Reduced methane, g/hp	0.65	0.65
Engine rating, hp	625	625
Methane reduction, lbs/hr	0.89	0.89
Hours of operation	8760	8760
Methane reduction, lbs/yr	7,839	7,839
Moles/yr	488.63	488.63
Volume, MCF/yr	**185.19**	1-G398 **185.19**

	Ramsey	State Line	Rustler	Capitan
TOTALS, MCF	405.37	5,469.49	443.37	220.78
Value in $/Mcf	3.50	3.50	3.50	3.50
Total value, $	1418.80	19143.22	1551.81	772.74
Total Methane Reduction, MSCF			**6,539.02**	
Value in $/Mcf			3.50	
Total value, $			22,887	